What is claimed is:

1. A surface acoustic wave (SAW) resonator comprising:

a piezoelectric substrate;

an interdigital transducer (IDT) electrode formed on said piezoelectric substrate; and

a reflector electrode disposed adjacent to said IDT electrode,

wherein said IDT electrode comprises a plurality of first finger-electrodes, a plurality of second finger-electrodes and a plurality of strip-line electrodes, and

wherein said first finger-electrodes and said second finger-electrodes do not overlap with each other, but are acoustically coupled together by said strip-line electrodes.

2. The SAW resonator of claim 1, wherein said IDT electrode further comprises:

a first bus-bar electrode coupled to said first finger-electrodes;

a second bus-bar electrode coupled to said second finger-electrodes,

wherein said strip-line electrodes overlap with at least one of said first finger-electrodes and said second finger-electrodes,

wherein said IDT electrode and said reflector electrode form at least two resonating units, and

wherein said at least two resonating units are coupled in series via said strip-line electrodes.

3. The SAW resonator of claim 2, wherein said first finger-electrodes and said second finger-electrodes are arranged in a face-to-face manner.

4. The SAW resonator of claim 1,

wherein said first finger-electrodes are respectively arranged at intervals of a propagation wavelength of the SAW,

wherein said second finger-electrodes are respectively arranged at intervals of a propagation wavelength of the SAW, and

wherein said first finger-electrodes are arranged to directly face said second-finger electrodes along a propagating direction of the SAW.

5. The SAW resonator of claim 1,

wherein said first finger-electrodes are respectively arranged at intervals of a propagation wavelength of the SAW,

wherein said second finger-electrodes are respectively arranged at intervals of a propagation wavelength of the SAW, and

wherein said first finger-electrodes and said second finger-electrodes are respectively arranged to face each other and to deviate from each other by a given distance along a propagation direction of the SAW.

6. The SAW resonator of claim 5, wherein the given distance is one of $\lambda/2$ and $\lambda/4$, where λ is the propagation wavelength of the SAW.

7. The SAW resonator of claim 4, wherein said strip-line electrodes are disposed with a deviation of $\lambda/2$, where λ = a wavelength of the SAW, from respective centers of said first finger-electrodes and said second finger-electrodes.

8. The SAW resonator of claim 7,

wherein a first area, where said first finger-electrodes and said strip-

line electrodes overlap with each other, forms a first resonating unit, and

wherein a second area, where said second finger-electrodes and said strip-line electrodes overlap with each other, forms a second resonating unit.

9. The SAW resonator of claim 5, wherein said strip-line electrodes are separated from said first finger-electrodes and said second finger-electrodes respectively with substantially equal spaces in between, and wherein each one of said strip-line electrodes is shaped like a dogleg.

10. The SAW resonator of claim 2, wherein said strip-line electrodes comprise electrodes ranging from a plurality of first strip-line electrodes to a plurality of "N"th strip-line electrodes, wherein N is an integer not less than 2,

wherein respective parts of said first strip-line electrodes are disposed to overlap with said first finger-electrodes with a deviation of $\lambda/2$, where λ = a wavelength of the SAW, from respective centers of each one of said first finger-electrodes, and

wherein respective parts of said "N"th strip-line electrodes are disposed to overlap with said second finger-electrodes with a deviation of $\lambda/2$ from respective centers of each one of said second finger-electrodes.

11. The SAW resonator of claim 10, wherein an extension of said first strip-line electrodes, said second strip-line electrodes, a plurality of "m"th strip-line electrodes, a plurality of "m+1"th strip-line electrodes, wherein "m" is an integer not less than 2, and not more than N – 2, a plurality of "N – 1"th strip-line electrodes, and an extension of said "N"th strip-line electrodes overlap with each other in a given length;

wherein a first area, where said first finger-electrodes and said first strip-line electrodes overlap with each other, forms a first resonating unit;

wherein a second area, where said second finger-electrodes and said Nth strip-line electrodes overlap with each other, forms a second resonating unit;

wherein a plurality of additional areas, where electrodes ranging from said "m"th strip-line electrodes to said "m+1"th strip-line electrodes overlap with each other respectively in a given length, form "N + 1" resonating units; and

wherein said first resonating unit through said "N + 1"th resonating unit are coupled in series via said first strip-line electrodes through said "N"th strip-line electrodes.

12. The SAW resonator of claim 10, wherein N = 2, and at least one of said first strip-line electrodes and said second strip-line electrodes is shaped like a dogleg.

13. The SAW resonator of claim 2, further comprising a plurality of dummy electrodes respectively disposed between said first finger-electrodes and said second finger-electrodes such that each of said dummy electrodes faces a respective one of said strip-line electrodes.

14. The SAW resonator of claim 13, wherein each of said dummy electrodes has a length of not less than $\lambda/2$, where λ = a wavelength of the SAW.

15. The SAW resonator of claim 13, wherein each of said dummy

electrodes faces a respective one of said strip-line electrodes with a space in-between of not more than $\lambda/4$, where λ = a wavelength of the SAW.

16. The SAW resonator of claim 13, wherein each of said dummy electrodes has a width greater than that of each of said first finger-electrodes and that of each of said second finger-electrodes.

17. A surface acoustic wave (SAW) filter comprising:

a piezoelectric substrate; and

a plurality of resonating units disposed on said piezoelectric substrate,

wherein at least a part of said plurality of resonating units includes an interdigital transducer (IDT) electrode having a first finger-electrode, a second finger-electrode, and a strip-line electrode,

wherein said first finger electrode and said second finger electrode do not overlap with each other but are acoustically coupled together by said strip-line electrode.

18. A surface acoustic wave (SAW) filter comprising:

a piezoelectric substrate;

a plurality of interdigital transducer (IDT) electrodes disposed on said piezoelectric substrate adjacent to each other along a propagating direction of the SAW;

a first reflector electrode disposed at a first side of said plurality of IDT electrodes; and

a second reflector electrode disposed at a second side of said plurality of IDT electrodes,

wherein at least one of said IDT electrodes includes a first finger-

electrode, a second finger-electrode and a strip-line electrode, and

wherein said first finger-electrode and said second finger-electrode do not overlap with each other but are acoustically coupled together by said strip-line electrode.

19. The SAW filter of claim 18, wherein said plurality of IDT electrodes includes a first IDT electrode, a second IDT electrode, and a third IDT electrode,

wherein said second IDT electrode is disposed between said first IDT electrode and said third IDT electrode, and includes said first finger-electrode, said second finger-electrode and said strip-line electrode,

wherein said first finger-electrode and said second finger-electrode do not overlap with each other but are acoustically coupled together by said strip-line electrode,

wherein each of said first IDT electrode and said third IDT electrode are formed of two IDT electrode patterns coupled together in parallel.

20. An antenna duplexer comprising a plurality of surface acoustic wave (SAW) filters, wherein each of said plurality of SAW filters includes:

a piezoelectric substrate; and

a plurality of SAW resonators disposed on said piezoelectric substrate;

wherein each of said plurality of SAW resonators includes an interdigital transducer (IDT) electrode,

wherein, for each of said SAW resonators, said IDT electrode includes a first finger-electrode, a second finger-electrode facing said first finger-electrode, and a strip-line electrode, and

wherein, for each of said SAW resonators, said first finger-electrode

and said second finger-electrode are acoustically coupled together by said strip-line electrode.